

TABLE 1. Correlation matrix for the algae at 2m and 4m at all sites other than the 4m depth at both Doctors Rocks transects.

KEY: BHR - Boat Harbour; DRW - Doctors Rocks West; DRE - Doctors Rocks East; BUR - Burnie; TIW - Tioxide West; TIE - Tioxide East; SCK - Sulphur Creek; PEN - Penguin; SIS - Three Sisters Rocks. (Values > 0.4 significant at $P < .001$)
Values > 0.7 are underlined for clarity.

DRW2	.48																
DRE2	.15	<u>.83</u>															
BUR2	.35	.48	<u>.73</u>														
TIW2	-.00	.24	.52	.51													
TIE2	-.00	.28	.65	<u>.74</u>	<u>.91</u>												
SCK2	-.02	.16	.21	.29	-.00	-.01											
PEN2	.04	.24	.29	.39	.00	.01	<u>.88</u>										
SIS2	.09	.59	<u>.80</u>	.69	.16	.43	.21	.22									
BHR4	<u>.87</u>	.52	.22	.40	.01	.05	.08	.15	.16								
BUR4	.14	.37	.61	<u>.85</u>	.18	.45	.43	.56	<u>.71</u>	.25							
TIW4	-.01	.26	.50	.50	<u>.91</u>	<u>.79</u>	.37	.29	.18	.03	.24						
TIE4	.10	.24	.41	.38	<u>.96</u>	<u>.79</u>	.01	.01	-.01	.07	.03	<u>.89</u>					
SCK4	.27	.11	.01	.12	-.03	-.03	.41	.14	.13	.22	.06	.19	-.01				
PEN4	.12	.24	.21	.24	.02	.06	.61	.33	.38	.14	.25	.34	-.01	.62			
SIS4	.00	.57	<u>.81</u>	.64	.14	.38	.27	.35	<u>.92</u>	.10	.68	.17	-.01	.02	.21		
BHR2	DRW2	DRE2	BUR2	TIW2	TIE2	SCK2	PEN2	SIS2	BHR4	BUR4	TIW4	TIE4	SCK4	PEN4			

TABLE 2. Correlation matrix for algae and animals at the 2m depth based upon presence/absence data.

KEY: As for TABLE 1.

DRW	.48							
DRE	.16	<u>.81</u>						
BUR	.36	.47	<u>.72</u>					
TIW	.01	.24	.52	.52				
TIE	.01	.28	.65	<u>.74</u>	<u>.91</u>			
SCK	-.01	.16	.21	.28	.00	.00		
PEN	.05	.25	.30	.39	.01	.03	<u>.86</u>	
SIS	.11	.58	<u>.80</u>	.69	.17	.44	.21	.23
	BHR	DRW	DRE	BUR	TIW	TIE	SCK	PEN

FIGURE 1. Map of Northwestern Tasmania showing transect sites.

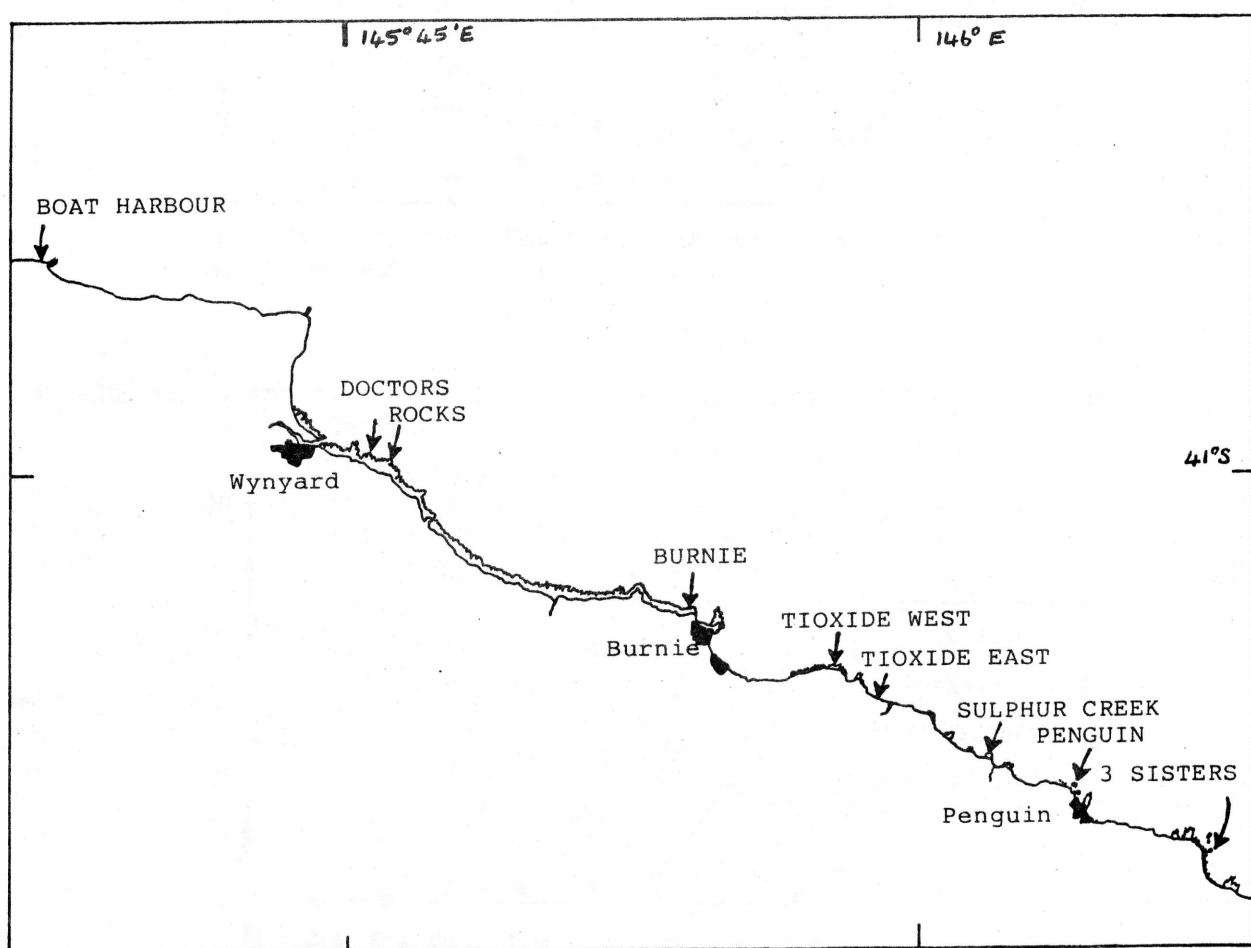


FIGURE 2. Graph of total algal species and major groups of species at 2 m depth.

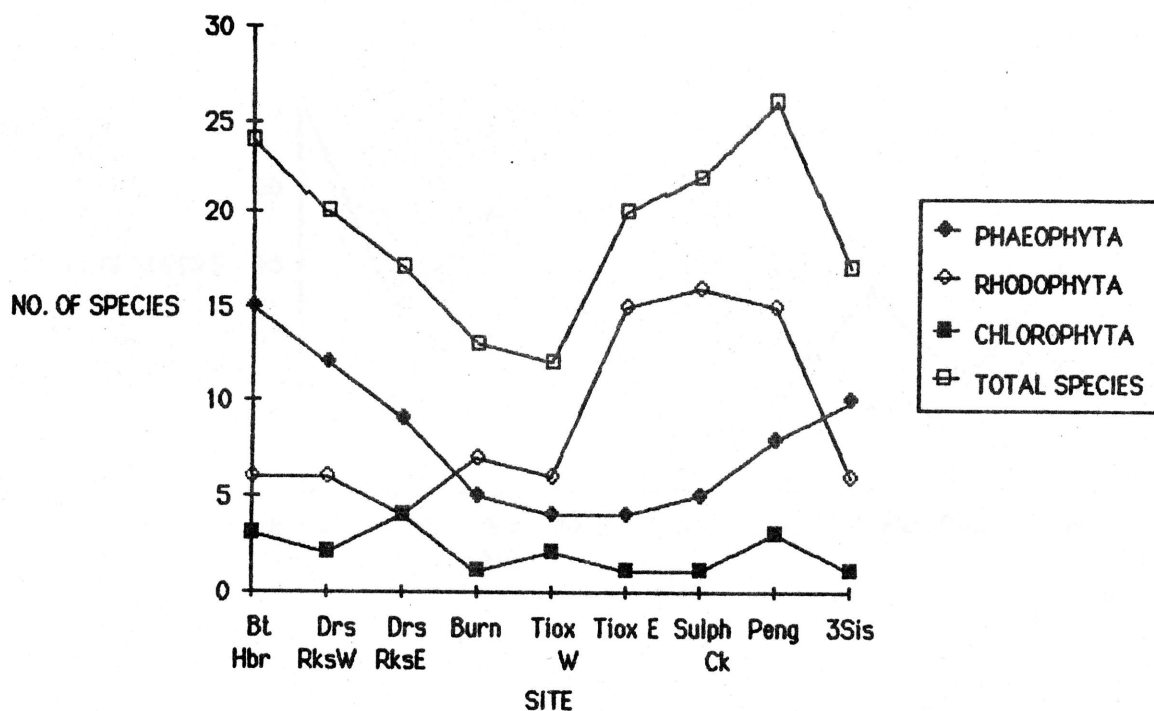


FIGURE 3. Graph of total algal species and major groups of species at 4 m depth.

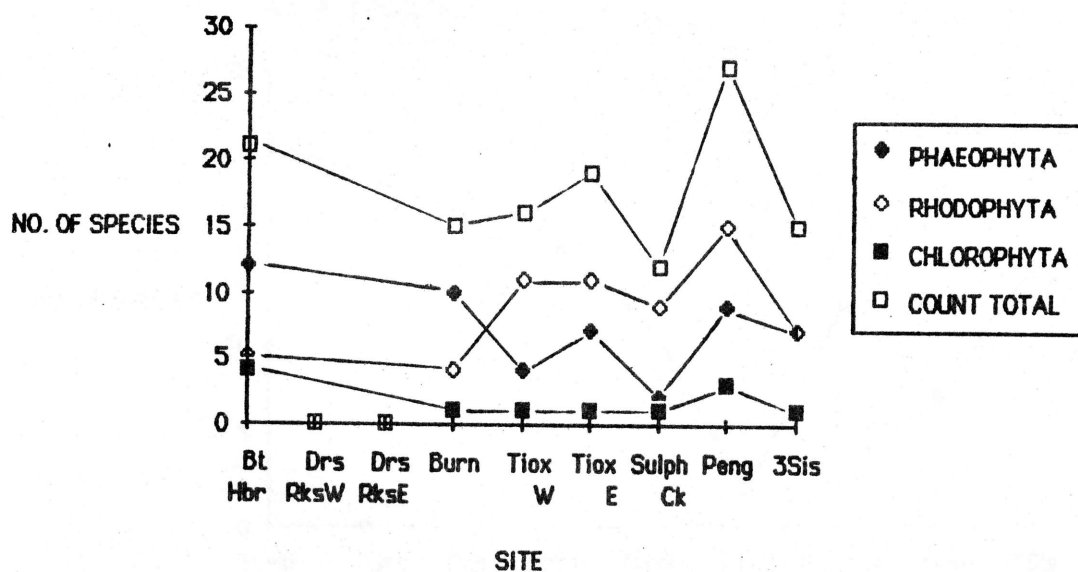


FIGURE 4. Graph of total animal species observed near the transects at 2 m depth.

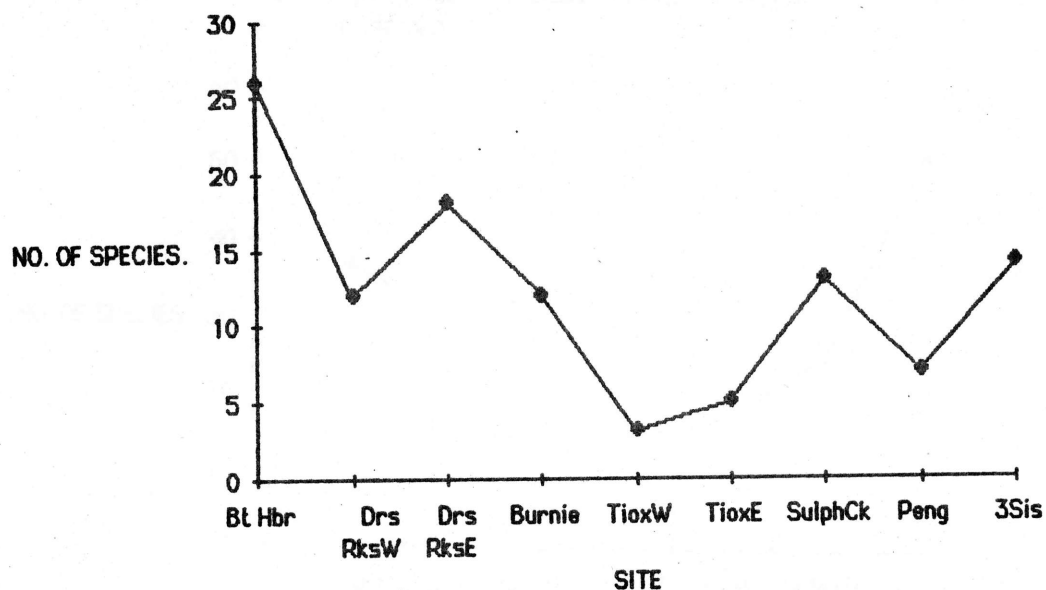


FIGURE 5. Graph of total animal species observed near the transects at 4 m depth.

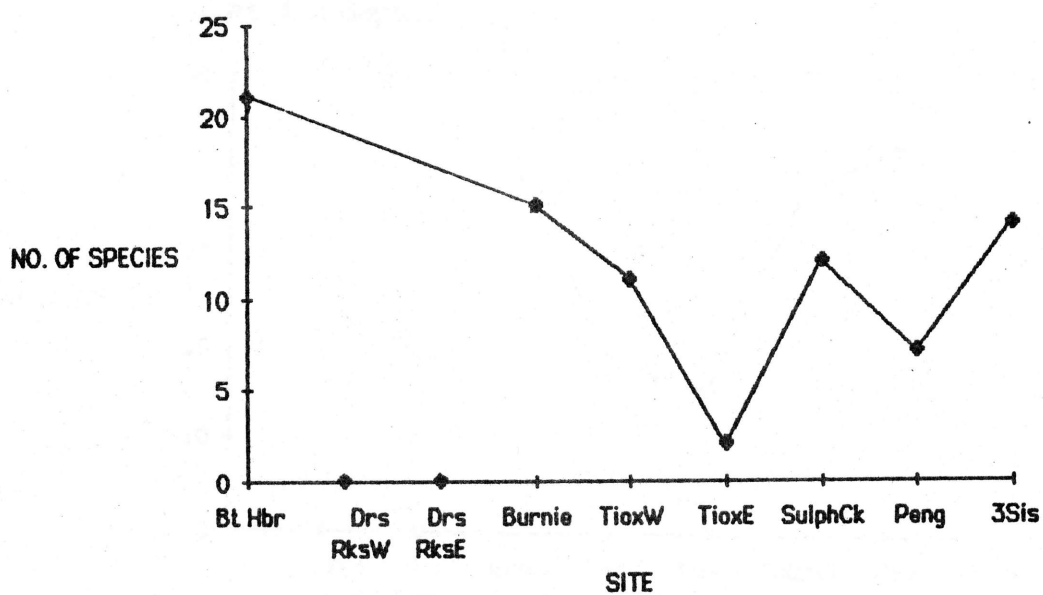


FIGURE 6. Graph of total animal species collected from the quadrats at 2 m depth.

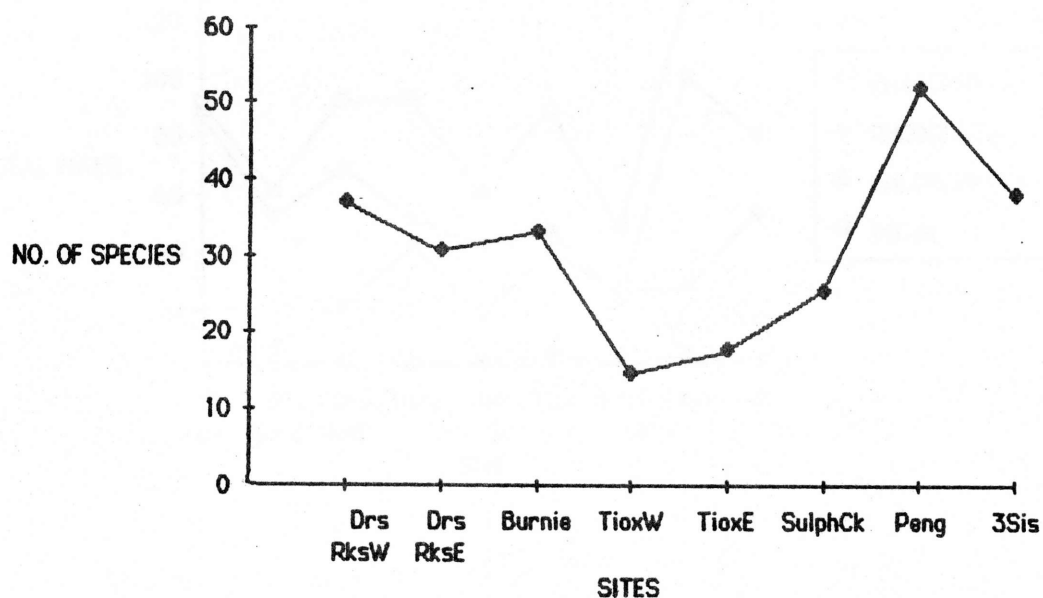


FIGURE 7. Graph of total animal species collected from the quadrats at 4 m depth.

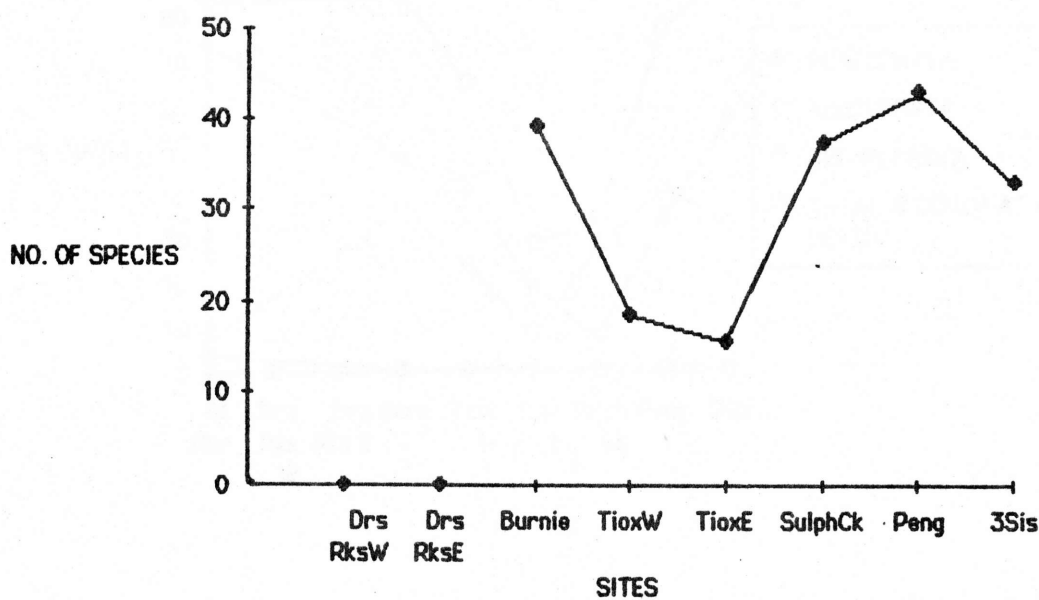


FIGURE 8. Graph of total percent cover for the algae and major groups of algae at 2 m depth.

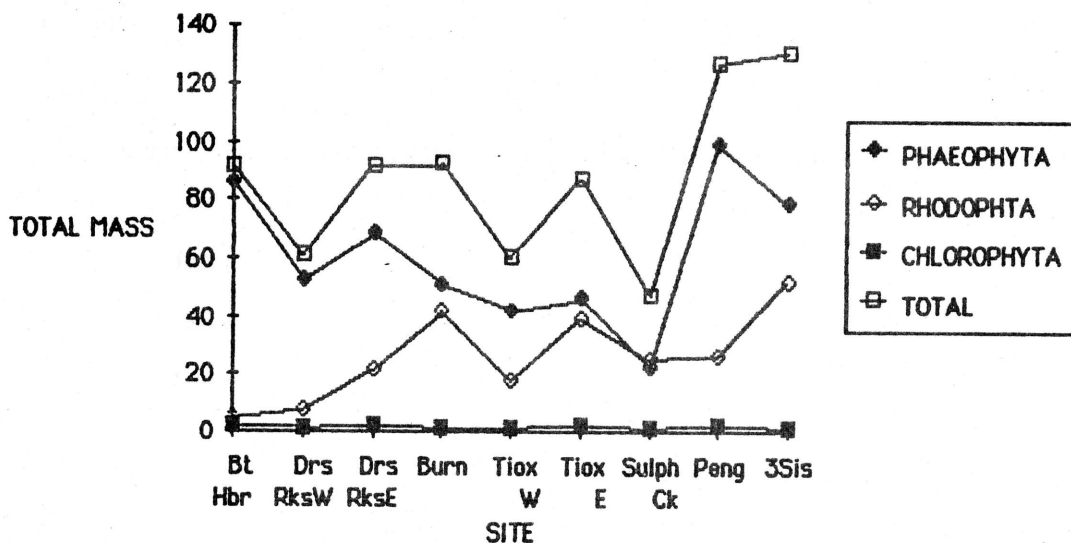


FIGURE 9. Graph of total percent cover for the algae and major groups of algae at 4 m depth.

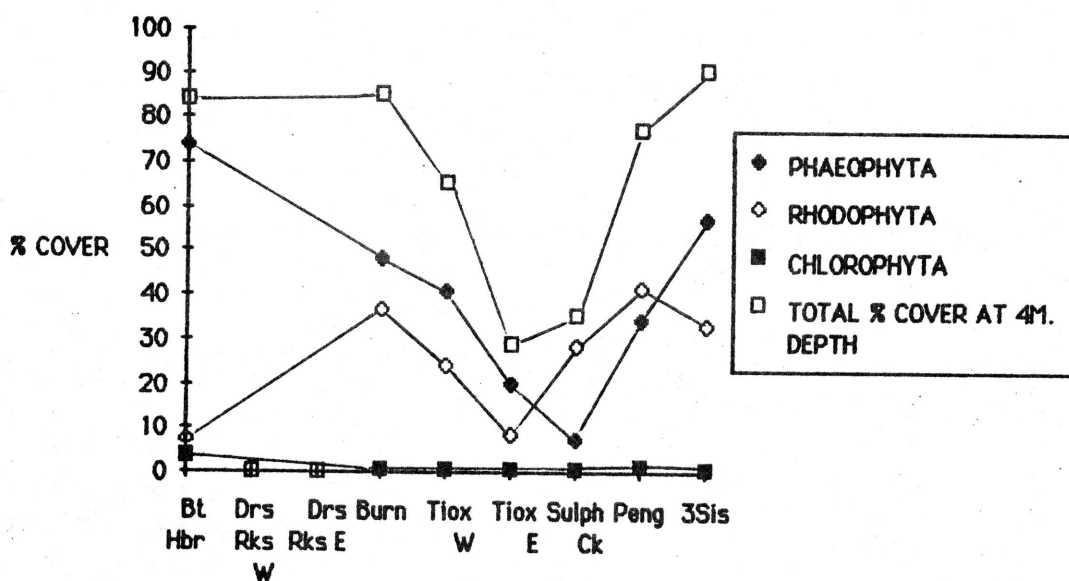


FIGURE 10. Graph of percent cover for all coralline algae at 2 m depth.

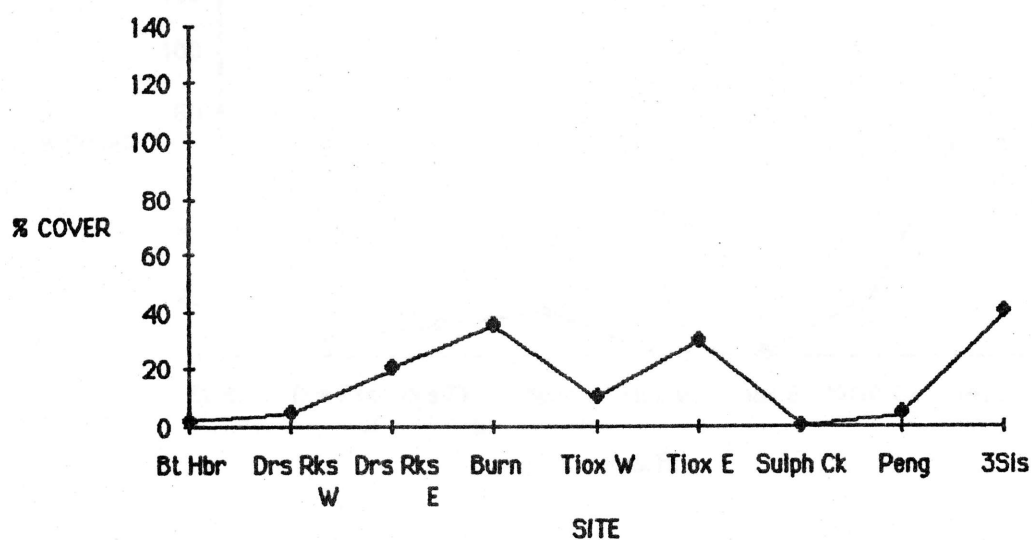


FIGURE 11. Graph of percent cover for all coralline algae at 4 m depth.

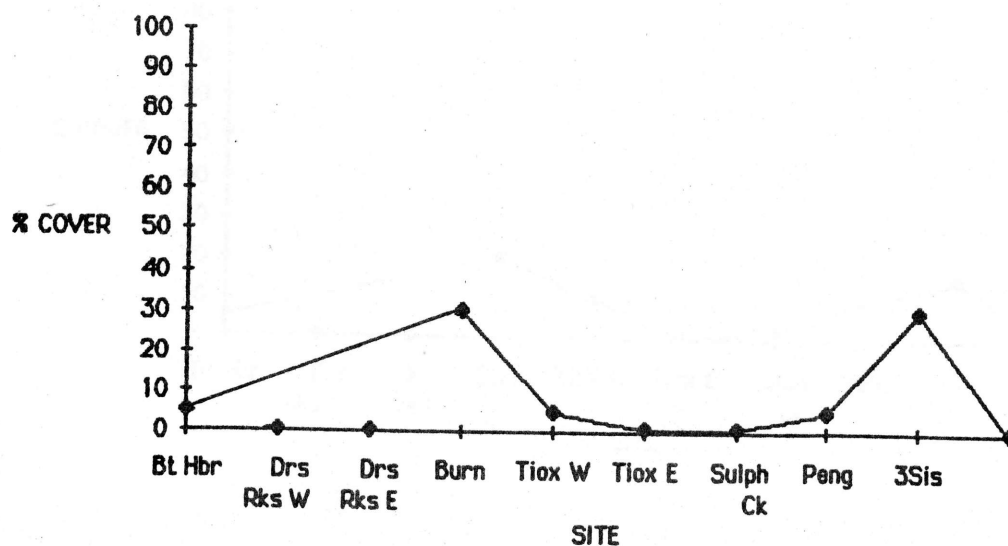


FIGURE 12. Graph of percent cover for Acrocarpia paniculata at 2 m depth.

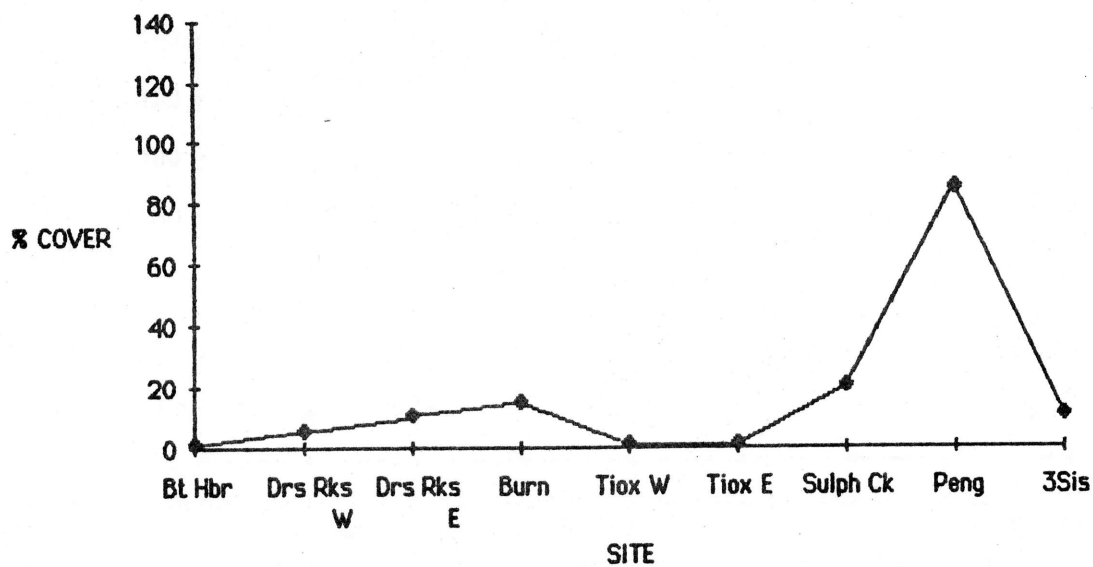


FIGURE 13. Graph of percent cover for Acrocarpia paniculata at 4 m depth.

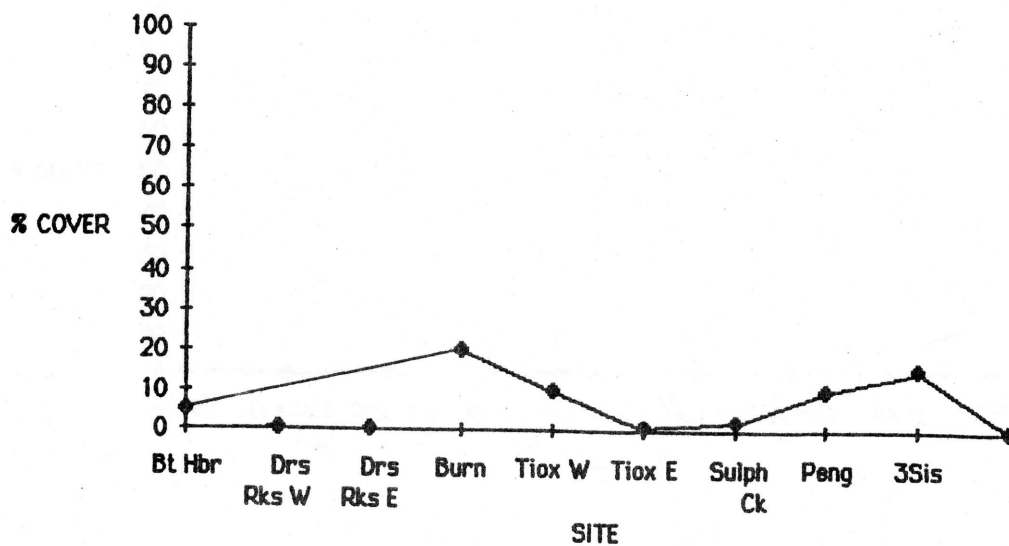


FIGURE 14. Graph of percent cover for Ecklonia radiata at 2 m depth.

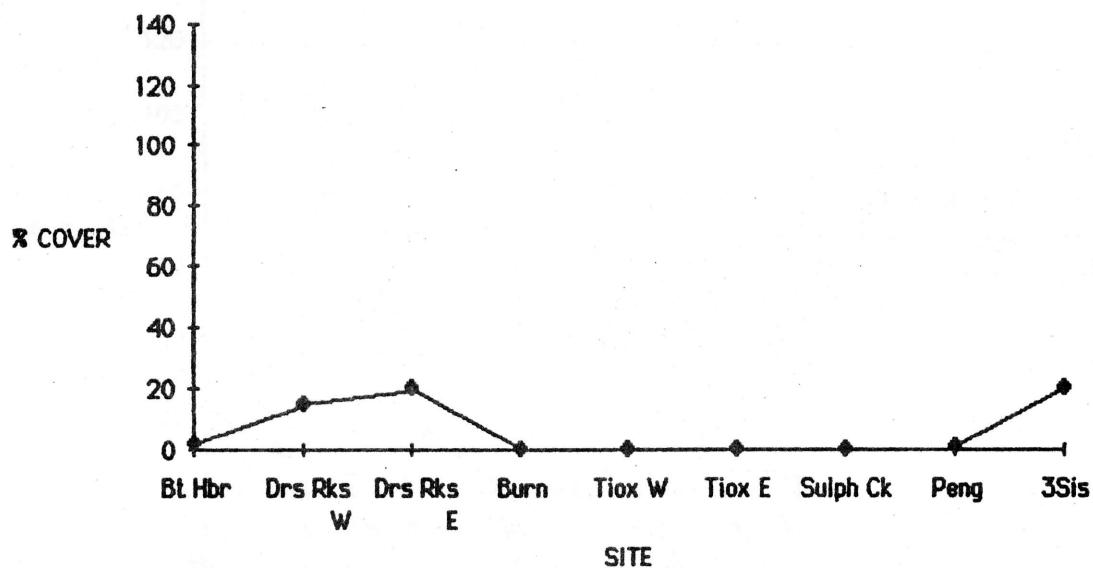


FIGURE 15. Graph of percent cover for Ecklonia radiata at 4 m depth.

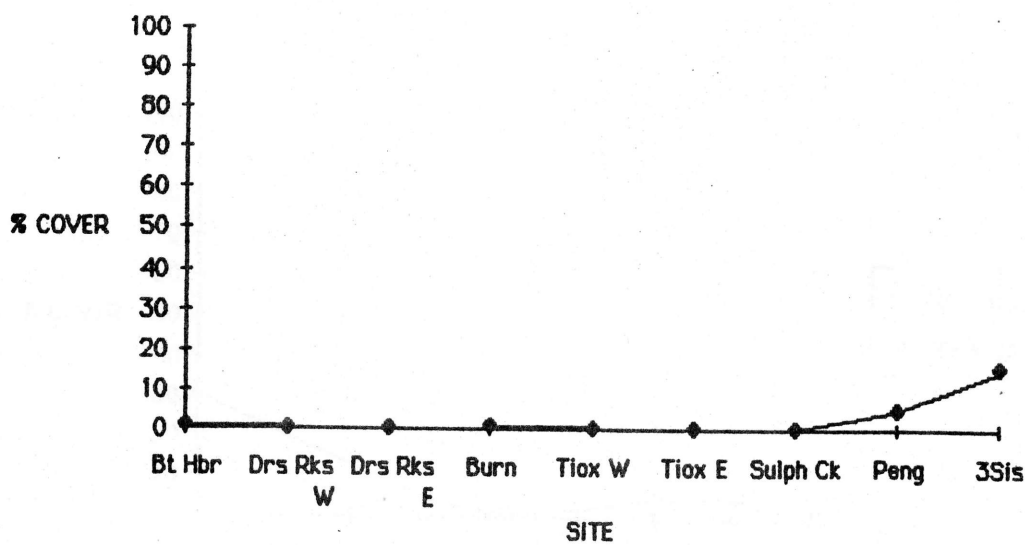


FIGURE 16. Graph of percent cover for Zonaria spp. and Macrocystis spp. at 2 m depth.

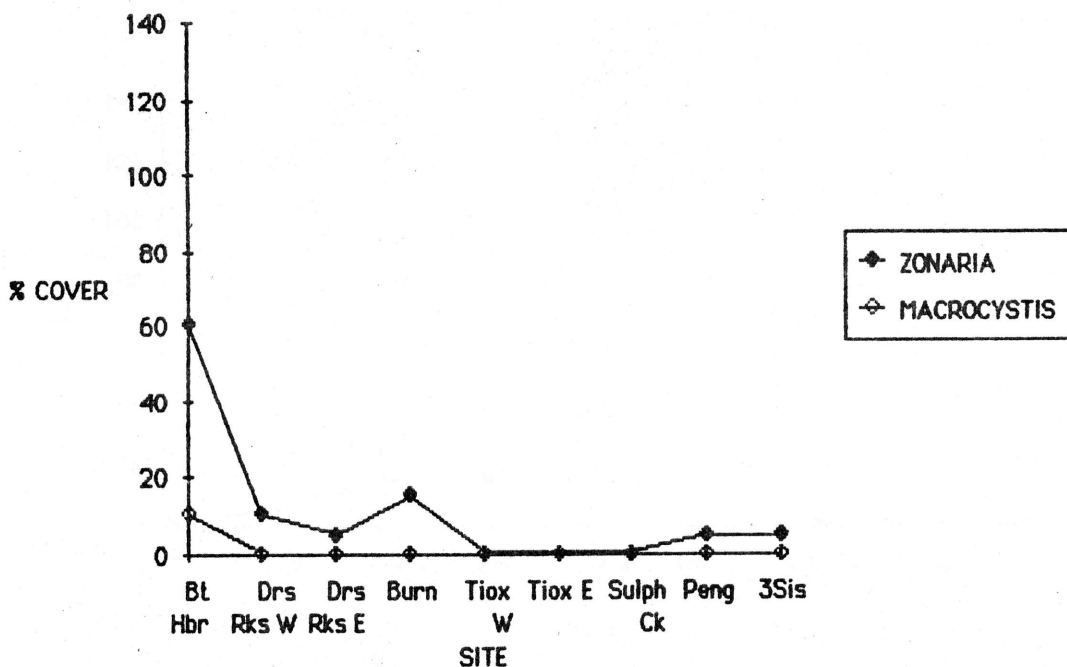


FIGURE 17. Graph of percent cover for Zonaria spp. and Macrocystis spp. at 4 m depth.

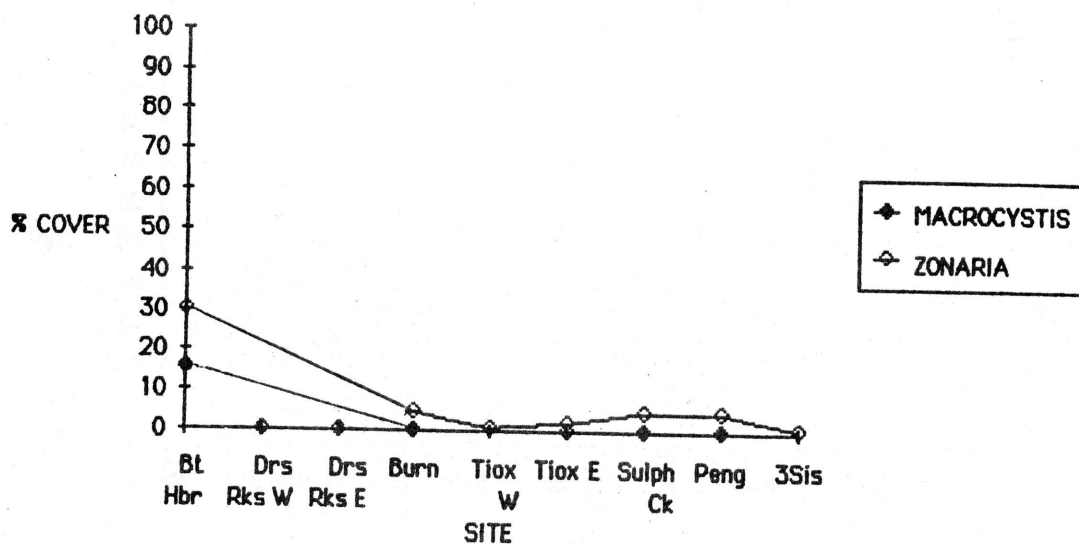


FIGURE 18. Graph of percent cover for Halopteris sp. at 2 m depth.

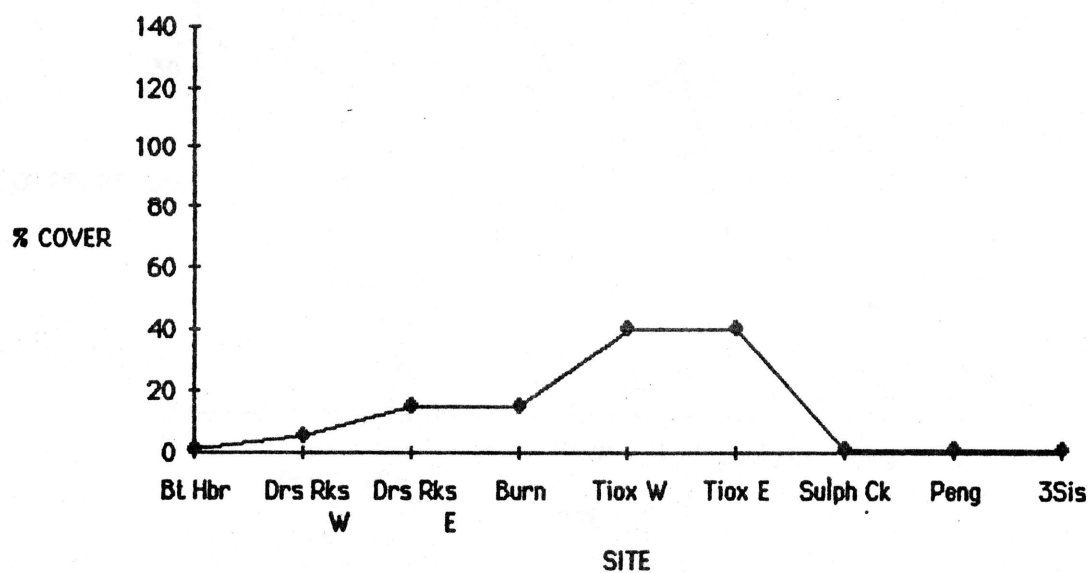


FIGURE 19. Graph of percent cover for Halopteris sp. at 4 m depth.

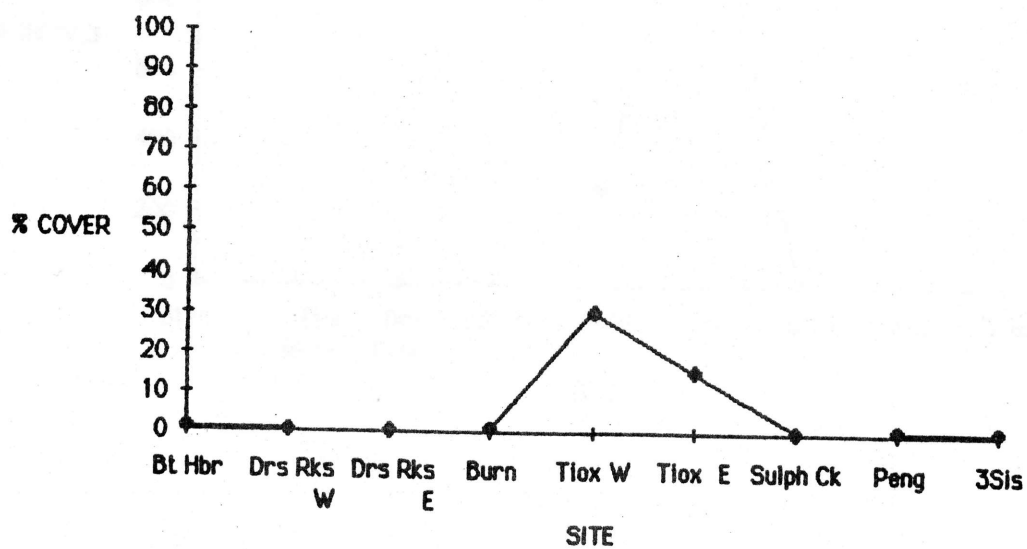


FIGURE 20. Graph of number of bivalve molluscs per quadrat at 2 m depth.

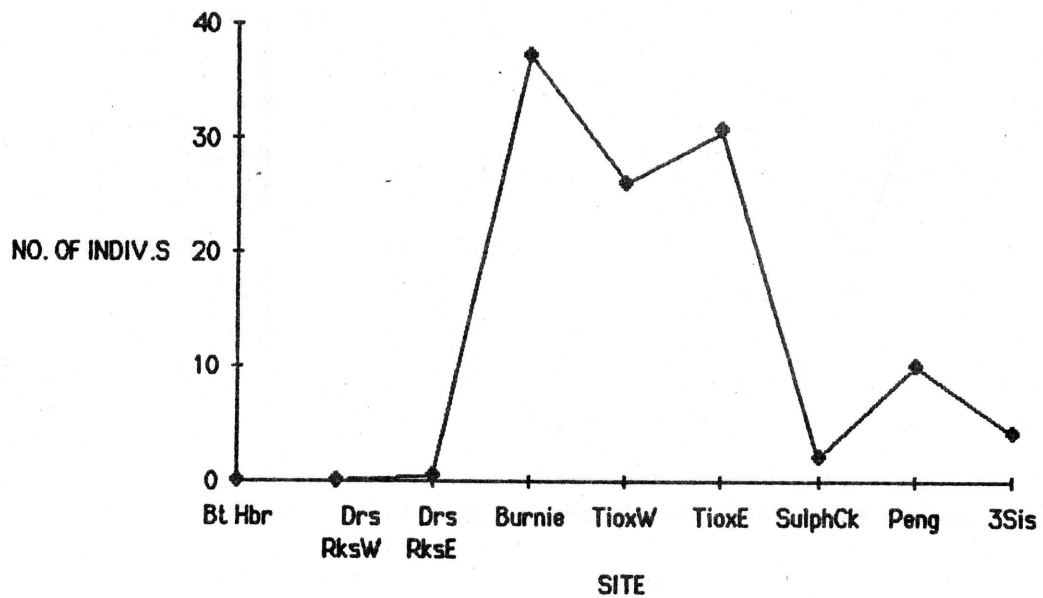


FIGURE 21. Graph of number of bivalve molluscs per quadrat at 4 m depth.

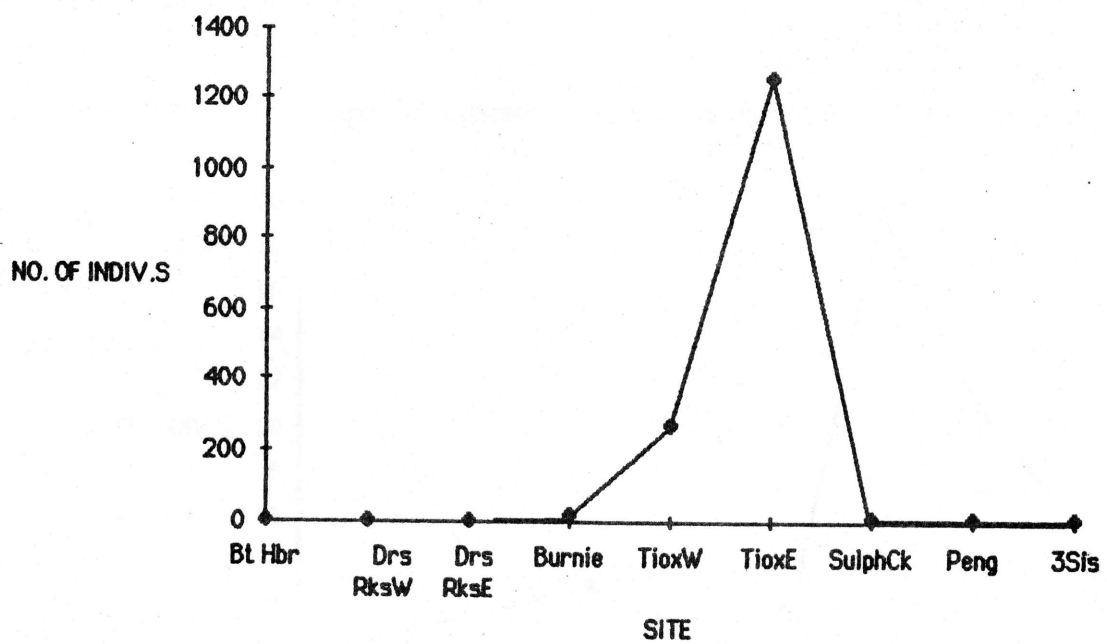


FIGURE 22. Graph of number of echinoderms per quadrat at 2 m depth.

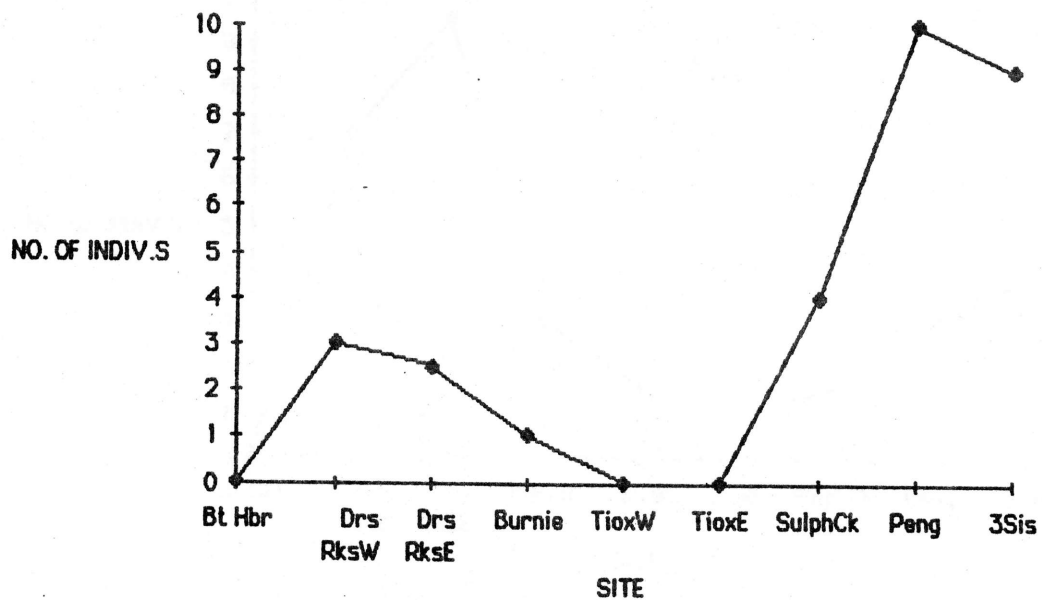


FIGURE 23. Graph of number of echinoderms per quadrat at 4 m depth.

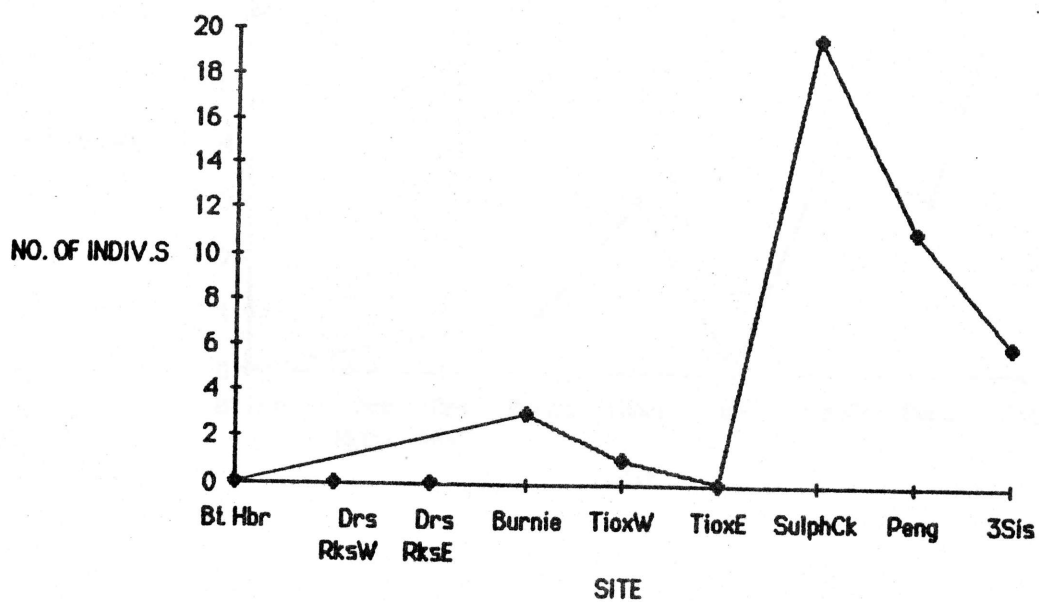


FIGURE 24. Graph of number of gastropod molluscs per quadrat at 2 m depth.

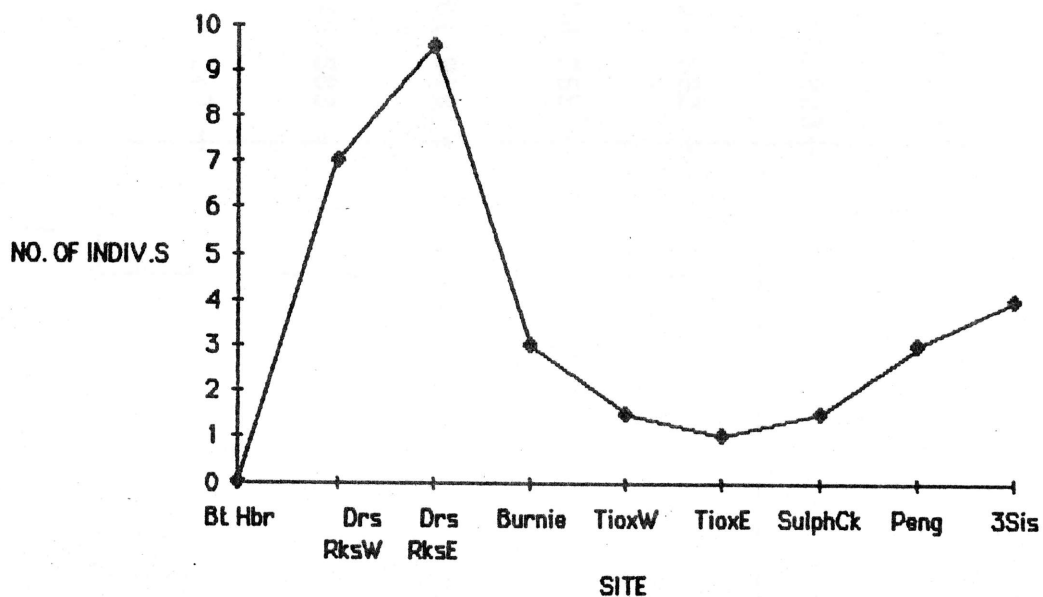


FIGURE 25. Graph of number of gastropod molluscs per quadrat at 4 m depth.

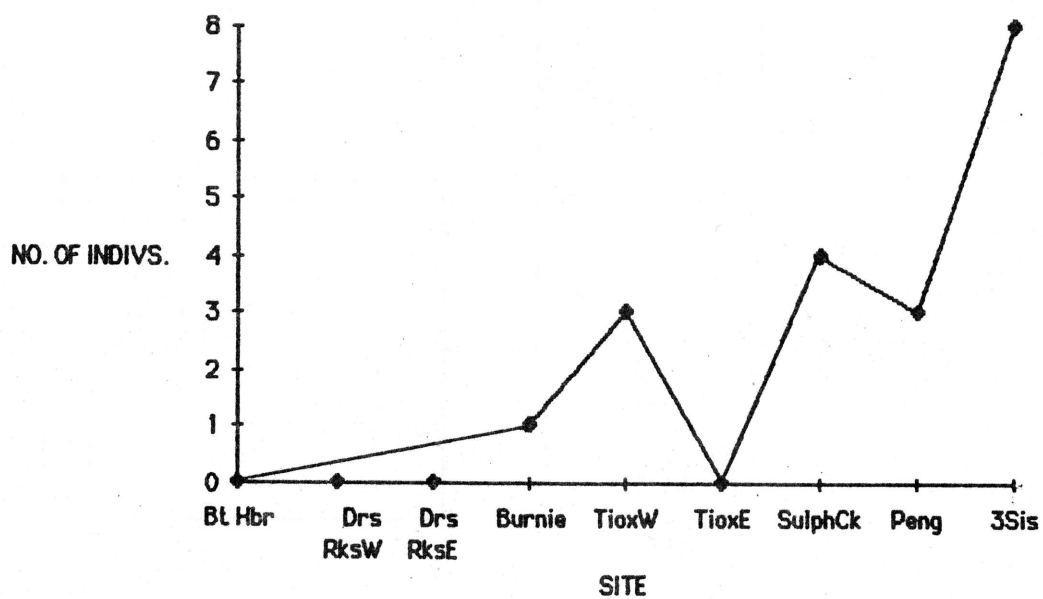
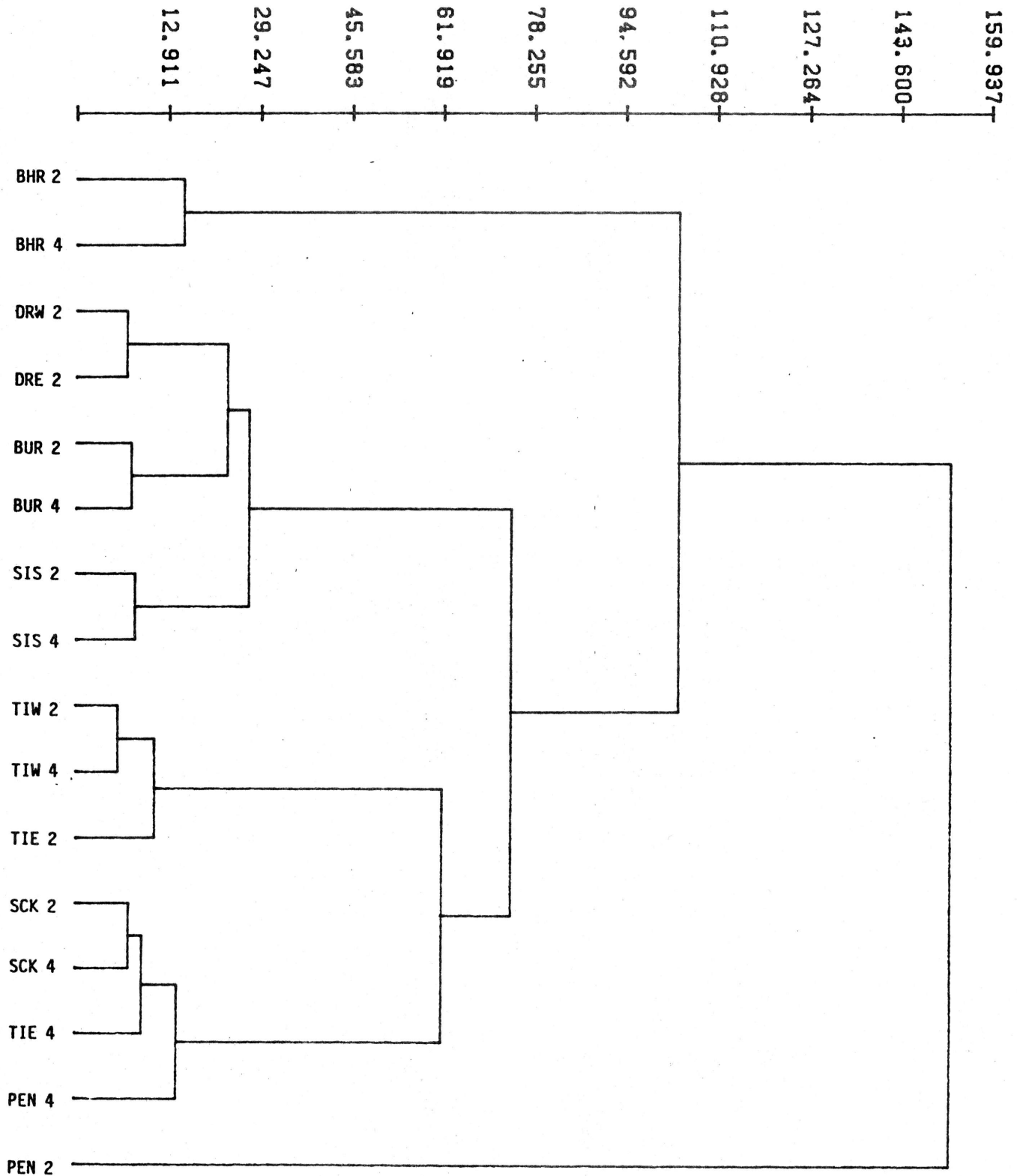


FIGURE 26. Dendrogram of similarity between sites and depths based upon a cluster analysis of algal percentage cover.



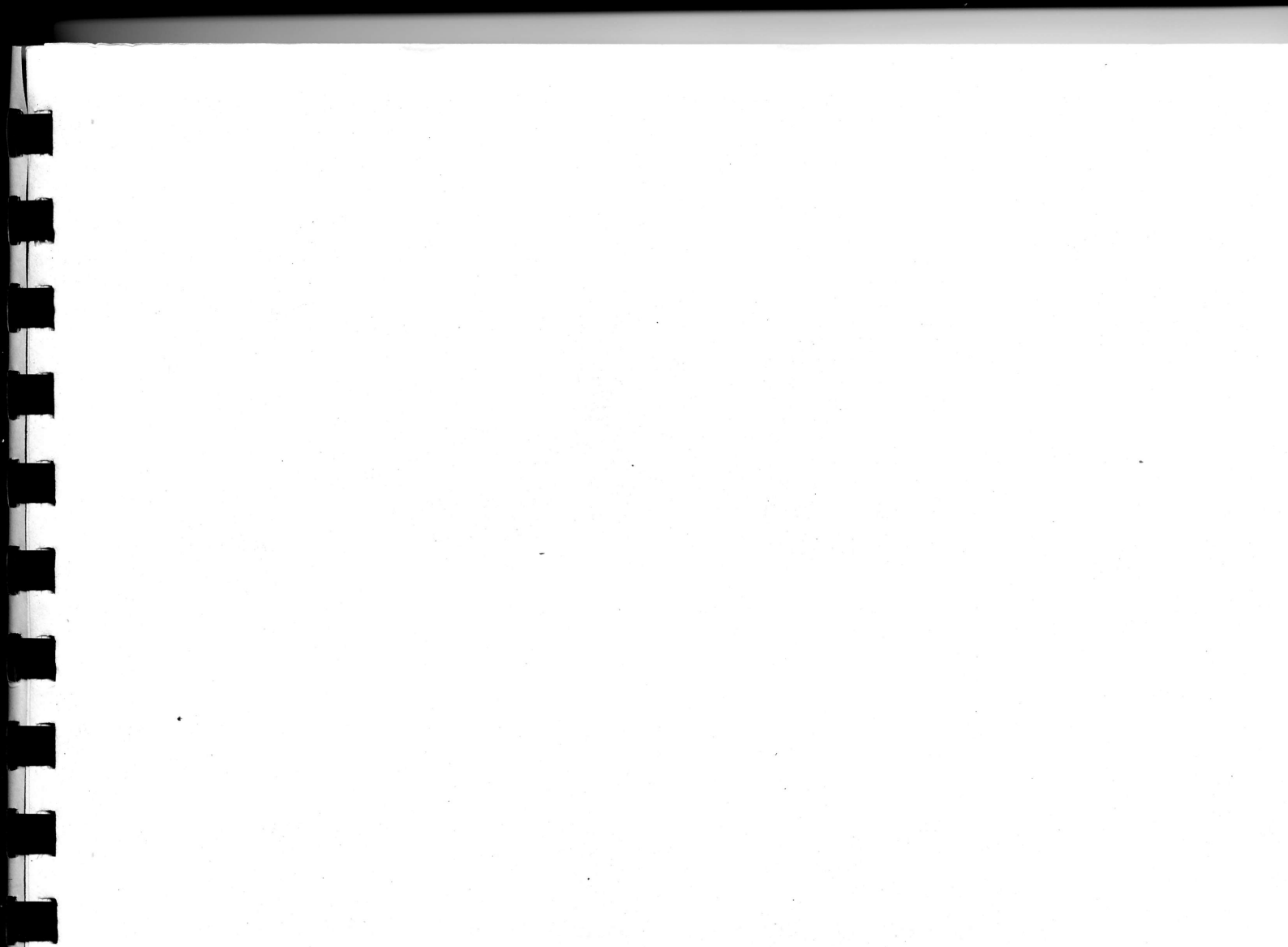


FIGURE 27. Reduced visibility at 4 m depth, Tioxide East transect.

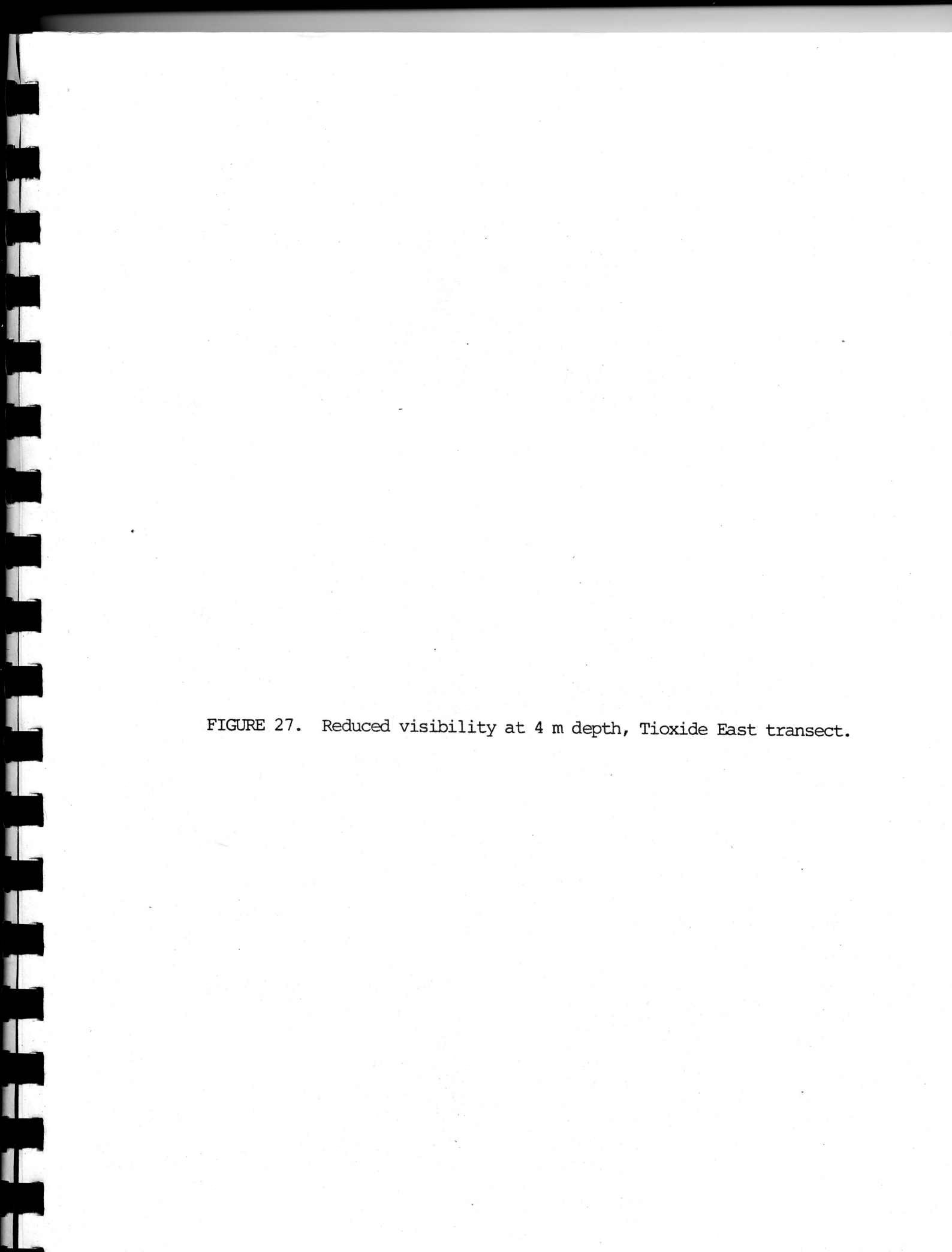


FIGURE 28. Quadrat at 4 m depth, Sulphur Creek transect, showing depauperate flora.

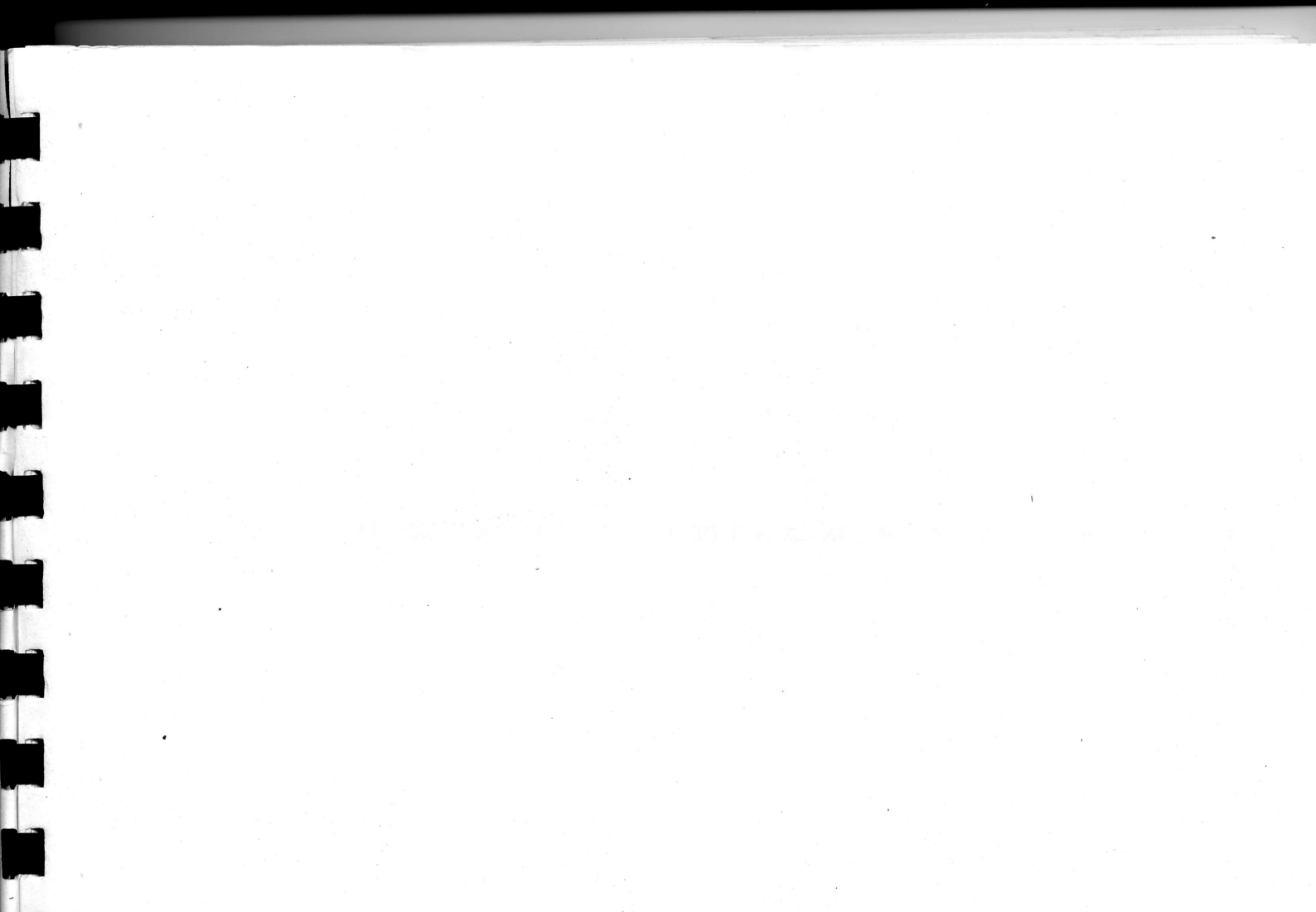


FIGURE 29. Algal community at 4 m depth, Doctors Rocks West transect, showing clean substrate and well developed flora.

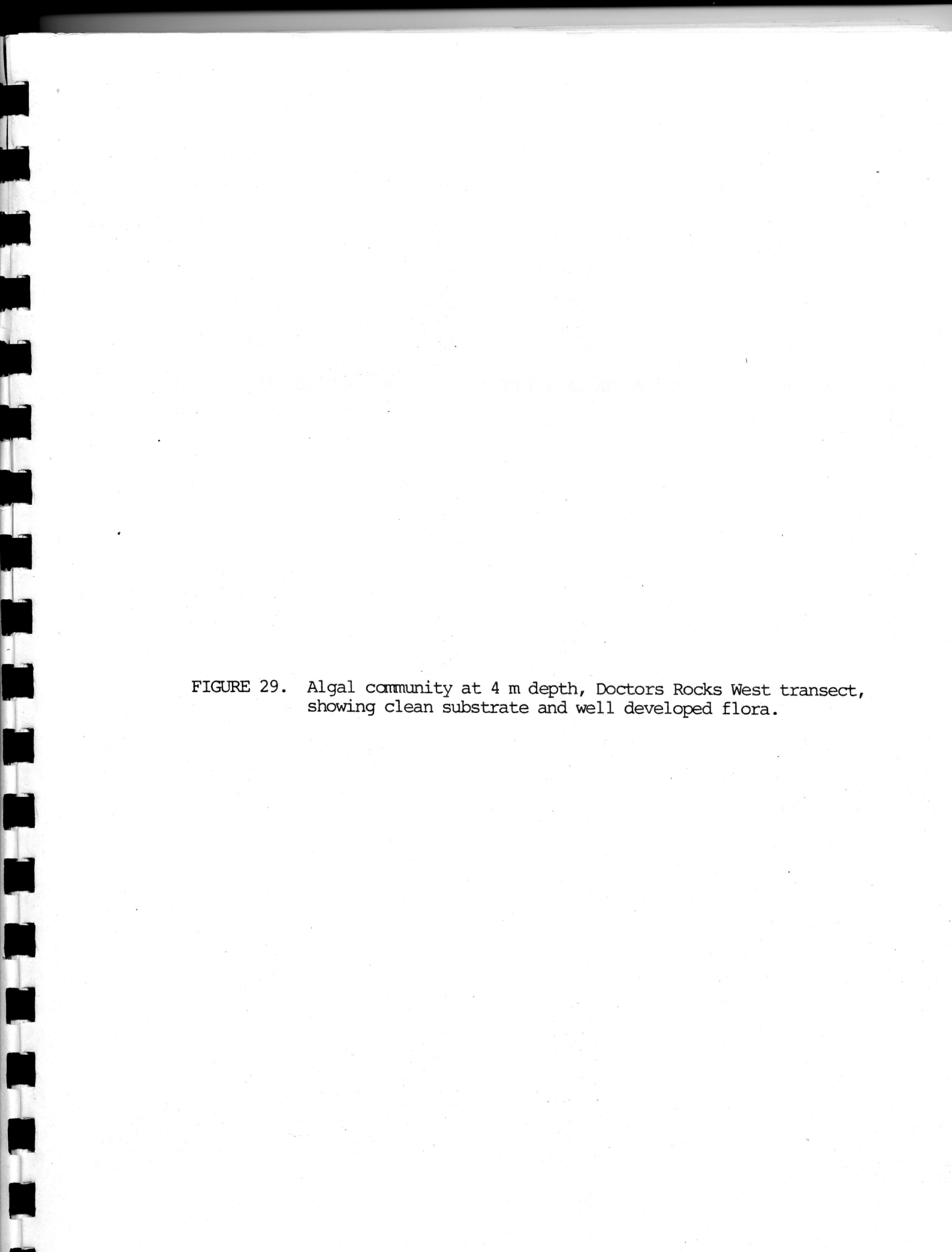


FIGURE 30. Foam washing up on the beach at Burnie.